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## <u>Abstract</u>

Polypeptides containing the kinase domain of a VEGFR are described. Also described are crystal structures of these polypeptides, including the crystal structures of VEGFR2KD:ligand complexes. The atomic coordinates derived from the crystal structures provide a three-dimensional description of the ligand-binding pocket of the kinase domain useful in drug discovery and design for the identification and design of modulators of kinase activity.